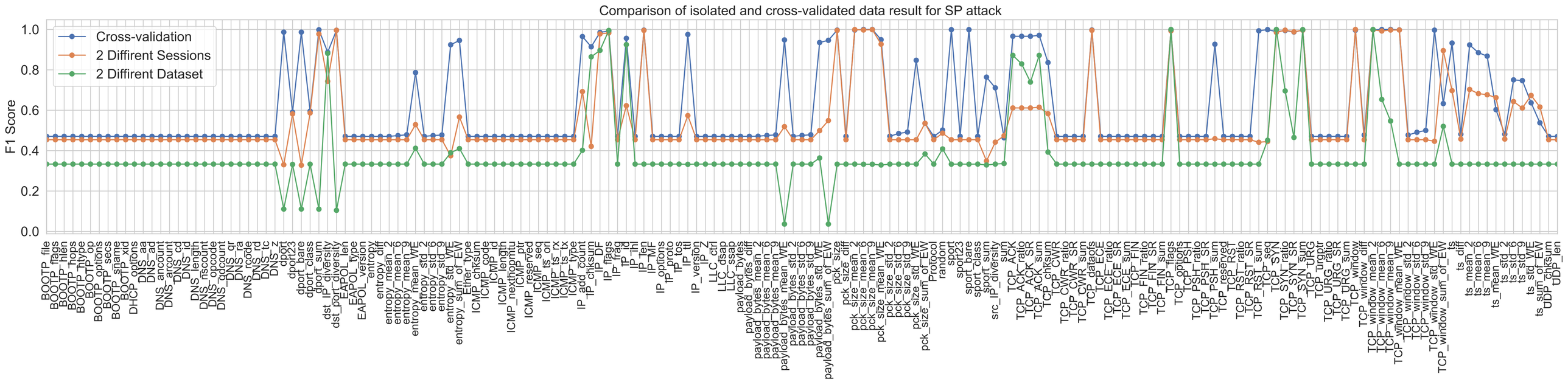
Comparison of isolated and cross-validated data result for SP attack
Cross-validation
2 Diffirent Sessions
2 Diffirent Dataset
F1 Score
1.0
0.8
0.6
0.4
0.2
0.0
BOOTP_file
BOOTP_flags
BOOTP_hlen
BOOTP_hops
BOOTP_htype
BOOTP_op
BOOTP_options
BOOTP_secs
BOOTP_sname
BOOTP_xid
DHCP_options
DNS_aa
DNS_ad
DNS_ancount
DNS_arcount
DNS_cd
DNS_id
DNS_length
DNS_nscount
DNS_opcode
DNS_qcount
DNS_qr
DNS_ra
DNS_rcode
DNS_rd
DNS_tc
DNS_z
dport
dport23
dport_bare
dport_class
dport_sum
dst_IP_diversity
dst_port_diversity
EAPOL_len
EAPOL_type
EAPOL_version
entropy
entropy_diff
entropy_mean
entropy_mean_2
entropy_mean_6
entropy_mean_9
entropy_mean_WE
entropy_std
entropy_std_2
entropy_std_6
entropy_std_9
entropy_std_WE
entropy_sum_of_EW
Ether_type
ICMP_chksum
ICMP_code
ICMP_id
ICMP_length
ICMP_nexthopmtu
ICMP_ptr
ICMP_reserved
ICMP_seq
ICMP_ts_ori
ICMP_ts_rx
ICMP_ts_tx
ICMP_type
IP_add_count
IP_chksum
IP_DF
IP_flags
IP_frag
IP_id
IP_ihl
IP_len
IP_MF
IP_options
IP_proto
IP_tos
IP_ttl
IP_version
IP_Z
LLC_ctrl
LLC_dsap
LLC_ssap
payload_bytes
payload_bytes_diff
payload_bytes_mean
payload_bytes_mean_2
payload_bytes_mean_6
payload_bytes_mean_9
payload_bytes_mean_WE
payload_bytes_std
payload_bytes_std_2
payload_bytes_std_6
payload_bytes_std_9
payload_bytes_std_WE
payload_bytes_sum_of_EW
pck_size
pck_size_diff
pck_size_mean
pck_size_mean_2
pck_size_mean_6
pck_size_mean_9
pck_size_mean_WE
pck_size_std
pck_size_std_2
pck_size_std_6
pck_size_std_9
pck_size_std_WE
pck_size_sum_of_EW
Protocol
random
sport
sport23
sport_bare
sport_class
sport_sum
src_IP_diversity
sum
TCP_ACK
TCP_ACK_ratio
TCP_ACK_SR
TCP_ACK_sum
TCP_chksum
TCP_CWR
TCP_CWR_ratio
TCP_CWR_SR
TCP_CWR_sum
TCP_dataofs
TCP_ECE
TCP_ECE_ratio
TCP_ECE_SR
TCP_ECE_sum
TCP_FIN
TCP_FIN_ratio
TCP_FIN_SR
TCP_FIN_sum
TCP_flags
TCP_options
TCP_PSH
TCP_PSH_ratio
TCP_PSH_SR
TCP_PSH_sum
TCP_reserved
TCP_RST
TCP_RST_ratio
TCP_RST_SR
TCP_RST_sum
TCP_seq
TCP_SYN
TCP_SYN_ratio
TCP_SYN_SR
TCP_SYN_sum
TCP_URG
TCP_urgptr
TCP_URG_ratio
TCP_URG_SR
TCP_URG_sum
TCP_window
TCP_window_diff
TCP_window_mean
TCP_window_mean_2
TCP_window_mean_6
TCP_window_mean_9
TCP_window_mean_WE
TCP_window_std
TCP_window_std_2
TCP_window_std_6
TCP_window_std_9
TCP_window_std_WE
TCP_window_sum_of_EW
ts
ts_diff
ts_mean
ts_mean_2
ts_mean_6
ts_mean_9
ts_mean_WE
ts_std
ts_std_2
ts_std_6
ts_std_9
ts_std_WE
ts_sum_of_EW
UDP_chksum
UDP_len